

Sequence Listing

<110> University of Georgia Research Foundation, Inc.

<120> NOVEL TELEOST DERIVED ANTIMICROBIAL POLYPEPTIDES

<130> G25-085PCT

<150> US60/545,370

<151> 2004-02-18

<150> US60/623,909

<151> 2004-11-01

<160> 31

<210> 1

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG

<210> 2

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 2

GGGGGGGGGGGGGGGGGG

<210> 3

<211> 201

<212> PRT

<213> Ictalurus punctatus

<400> 3

MSAQAEETAPEAAAPQPSQPAAKKKGPASKAKPASAEKKNNKKKKGKGPGKYSQLVINAIQTLGERNGSSSLFKIYNEAKKV
NWFDQQHGRVYLRYISIRALLQNDTLVQVKGLGANGSFKLNKKKFI PRTKSSVKPRKTAKPTKKPAKKA AKKKKRVSGVK
KATPPPEKTSKPKKADKSPASAKKASKPKKAKQT KKTAKKT

<210> 4

<211> 1146

<212> DNA

<213> Ictalurus punctatus

<400> 4

CGGCACGAGG GTTCAATAGC ATCTCAAGGC GCTTCAGAAC TTAAAGTTGA

60

ACCATGTCTG CTCAGGCTGA GGAAACTGCA CCAGAAGCAG CAGCACCAGT

120

ACAACCATCA CAACCAGCGG CCAAAAAGAA GGGACCCGCC AGTAAAGCAA	180
AGCCTGCCTC TGCAGAAAAA AAGAACAAAA AGAAGAAAGG GAAAGGGCCC	240
GGAAAGTACA GCCAGCTGGT GATCAATGCT ATCCAAACGC TGGGAGAGAG	300
AAACGGCTCG TCTCTTTTTA AGATCTACAA CGAGGCGAAG AAAGTGAAGT	360
GGTTTGACCA GCAGCACGGG CGCGTGTACC TCCGCTACTC CATCCGCGCG	420
CTGCTGCAGA ACGACACGCT CGTGCAGGTG AAGGGTCTGG GCGCCAACGG	480
CTCCTTCAAG CTCAACAAAA AGAAGTTCAT CCCCAGAACC AAGAAGAGCT	540
CTGTAAAGCC GAGAAAGACT GCGAAACCGA CCAAAAAGCC AGCCAAAAAA	600
GCAGCGAAGA AGAAGAAAAG GGTGAGCGGC GTGAAGAAGG CGACTCCCCC	660
CCCAGAGAAA ACCTCCAAAC CCAAGAAAGC GGATAAAAGT CCAGCCGTCT	720
CTGCCAAGAA GGCAGCAAG CCAAGAAAG CTAAACAGAC AAAAAAGACT	780
GCTAAGAAGA CTTAAAACGT TTATATTCTG CATGCTTTGT GCATTAAGCA	840
TTGCACTGCG GGTAAGTGC ACGCTTCTG ATCGCAGTTC ATTAAGTAGG	900
ATATGCACAG TGTTTAACCA AGTGTGCAAG TCACTCTGGT CTCAATGTTT	960
TACTGATGTA ACCACATGTA AATAACTGTA CAAAGAAGGA AACAATCACT	1020
TTTGTAACGT CTGCTTTGTT ATTATTTCTT TTCTACTAGT TAGCTAAAAT	1080
AACTGCTTAT GGCTTCTTTT AAAATAAAAT GATAAAAGAA AAAAAAATAA	1140
AAAAAA	1146

<210> 5

<211> 951

<212> DNA

<213> Ictalurus punctatus

<220>

<221> CDS

<222> (1)..(615)

<223> ncamp-1 nucleic acid and protein sequence

<400> 5

1	CGGCACGAGGGTTCAATAGCATCTCAAGGCGCTTCAGAACTTAAAGTTGA	
	M S A Q A E E T A P E A A A P V	16
51	ACCATGTCTGCTCAGGCTGAGGAACTGCACCAGAAGCAGCAGCACCAGT	
	Q P S Q P A A K K K G P A S K A	32
101	ACAACCATCACAACCAGCGGCCAAAAAGAAGGGACCCGCCAGTAAAGCAA	
	K P A S A E K K N K K K K G K G P	49
151	AGCCTGCCTCTGCAGAAAAAAGAACAAAAAGAAGAAAGGGAAAGGGCCC	
	G K Y S Q L V I N A I Q T L G E R	66
201	GGAAAGTACAGCCAGCTGGTGATCAATGCTATCCAAACGCTGGGAGAGAG	
	N G S S L F K I Y N E A K K V N	82
251	AAACGGCTCGTCTCTTTTAAAGATCTACAACGAGGCGAAGAAAGTGAAGT	
	W F D Q Q H G R V Y L R Y S I R A	99
301	GGTTTGACCAGCAGCACGGGCGCGTGTACCTCCGCTACTCCATCCGCGCG	
	L L Q N D T L V Q V K G L G A N G	116
351	CTGCTGCAGAACGACACGCTCGTGCAGGTGAAGGGTCTGGGCGCCAACGG	
	S F K L N K K K F I P R T K K S	132
401	CTCCTTCAAGCTCAACAAAAAGAAGTTCATCCCCAGAACCAAGAAGAGCT	
	S V K P R K T A K P T K K P A K K	149
451	CTGTAAAGCCGAGAAAGACTGCGAAACCGACCAAAAAGCCAGCCAAAAAA	
	A A K K K K R V S G V K K A T P P	166
501	GCAGCGAAGAAGAAGAAAGGGTCAGCGGCGTGAAGAAGGCGACTCCCCC	
	P E K T S K P K K A D K S P A V	182
551	CCCAGAGAAAACCTCCAAACCCAAGAAAGCGGATAAAAGTCCAGCCGTCT	
	S A K K A S K P K K A K Q T K K T	199
601	CTGCCAAGAAGGCGAGCAAGCCCAAGAAAGCTAAACAGACAAAAAAGACT	
	A K K T *	203

651 GCTAAGAAGACTTAAAACGTTTATATTCTGCATGCTTTGTGCATTAAGCA
701 TTGCACTGCGGGTAAACTGCACGCTTTCTGATCGCAGTTCATTAAGTAGG
751 ATATGCACAGTGTTTAACCAAGTGTGCAAGTCACTCTGGTCTCAATGTTT
801 TACTGATGTAACCACATGTAAATAACTGTACAAAGAAGGAAACAATCACT
851 TTTGTAACGTCTGCTTTGTTATTATTTCTTTTCTACTAGTTAGCTAAAAT
901 AACTGCTTATGGCTTCTTTTAAAATAAAATGATAAAAGAAAAAAAAAAAA
951 AAAAAA

<210> 6

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 6

GGGGGGGGGGGGGGGGGGGG

<210> 7

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 7

TCGTCGTTGTCGTTGTCGTT

<210> 8

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 8

CCCCCCCCCCCCCCCCCCCC

<210> 9

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 9

AAAAAAAAAAAAAAAAAAAA

<210> 10

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 10

TTTTTTTTTTTTTTTTTTTT

<210> 11

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 11

TGCTGCTTGTGCTTGTGCTT

<210> 12

<211> 247

<212> PRT

<213> Danio rerio

<400> 12

-----MPAVVEESAPAPAPAP-----AEKKAKPAVAASPAKK----KKKKSKGPGKYSKLVTDAL
RTLGEKNGSSLFKIYNEAKKVSFWDQKNRMYLRASIRALVLNDTLVQVKGFGANGSFKLNKKKLEKKPKK-
AASKKATKKTEKPTSKKAVT-----KKVSAKKSARKSPVKKKTPKKT-----SVKKATAKPKKTASKK
PKAAAKKKTKSK--

<210> 13

<211> 247

<212> PRT

<213> Xenopus laevis

<400> 13

-----MALELEENLHSTEEDEEEEEEGDEMRSRSTRNKGGAASSSGNKKKKK--KKNQPGRYSQLVVDITR
KLGERNGSSLAKIYSEAKKVSFWDQQNGRTYLYKYSIKALVQNDTLLQVKGVGANGSFRLNKKKLEGLPYDKKP
PPAKPSSSSSSNKKQQQ-----GPSSSPSKSHKAKPKAKAEKEKPKTSSAKAKSPKKSAAG-KKMKGAKP
SVRKAPKSKKA

<210> 14

<211> 247

<212> PRT

<213> Mus

<400> 14

-----MSVELEEALPPTSADG-----TARKTAKAGGSAAPTQPKRRKN-RKKNQPGKYSQLVVETIR
KLGERGGSSLARIYAEARKVAWFDQQNGRTYLYKYSIRALVQNDTLLQVKGFGANGSFKLNRKKLEGGAEERR-
GASAASSPAPKAR-----TAAADRTPARPQ-PERRAHKS-----KKAAAAASAKKVKKA
PSVPKVPKGRK-

<210> 15

<211> 247

<212> PRT

<213> Homo sapiens

<400> 15

-----MSVELEEALPVTTAEG-----MAKKVTKAGGSAALSPSKKRKNSKKKNQPGKYSQLVVETIRR
LGERNGSSLAKIYTEAKKVPWFDQQNGRTYLLKYSIKALVQNDTLLQVKGTGANGSFKLNRRKKLEGGGERRGAPAAATAPA
PTAHKAKKAAPGAAGSRRADKKPARGQKPEQRSHKKGAGAKDKGGKAKKTAAGGKKVKKAAPSVPKVPKGRK-

<210> 16

<211> 15

<212> PRT

<213> Mus

<400> 16

SETAPAEKPAPAKAE

<210> 17

<211> 25

<212> PRT

<213> Homo sapiens

<400> 17

KLNKKAAASGEAKPKAKAKSPKKAKA

<210> 18

<211> 17

<212> PRT

<213> Trout

<400> 18

KAVAAKKSPKKAKKPAT

<210> 19

<211> 19

<212> PRT

<213> Catfish

<400> 19

KGRGKQGGKVRKAKTRSS

<210> 20

<211> 20

<212> PRT

<213> Trout

<400> 20

PDPAKTAPKKGSKKAVTKXA

<210> 21

<211> 17

<212> PRT

<213> Bass

<400> 21

PEPAKSAPKKGSKKAVT

<210> 22

<211> 22

<212> PRT

<213> Bass

<400> 22

PDPAPKTAPKKGSKKAVTKTAG

<210> 23

<211> 26

<212> PRT

<213> Trout

<400> 23

AEVAPAPAAAAPAKAPKKKAAAKPKK

<210> 24

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 24

AKKA

<210> 25

<211> 11

<212> PRT

<213> Ictalurus punctatus

<400> 25

GASGSFKLNKK

<210> 26

<211> 21

<212> PRT

<213> Bacteria

<400> 26

AYSLQMGATAIKQVKKLFKKW

<210> 27

<211> 28

<212> PRT

<213> Moth

<400> 27

PKWKLFKKIEKVGQNIRDGIIKAGPAVA

<210> 28

<211> 22

<212> PRT

<213> Spider

<400> 28

FKFLAKKVAKTVAKQAAKQGA

<210> 29
<211> 22
<212> PRT
<213> Toad

<400> 29
AGRGKQGGKVRRAKAKTRSSRAG

<210> 30
<211> 23
<212> PRT
<213> Frog

<400> 30
GIGKFLHSAKKFGKAFVGEIMNS

<210> 31
<211> 30
<212> PRT
<213> Homo sapiens

<400> 31
KAPRKQLATPEPAKSAPAPKKGXKKXVTKA